

ABSTRACT OF THE DISCLOSURE

An electric heater with a sensor preventing no-water heating includes a heating plate and/or a metal plate fixed on the heating plate, a heating film electro-plated on a lower surface of the heating plate, and a water level probe, a sensing electrode or a water level sensor and a temperature fuse fixed with the heating plate. The water level probe, the sensing electrode or the water level sensor produces alteration of electric potential in case of the water level becoming very low, triggering a switch of an A/D amplifying circuit automatically cutting off power of the heating film.